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Elliott N. Kramsky Reg. No. 27,812
Name of applicant, assignee, or Registered Rep.


Signature

May 22, 2002

Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: : Examiner:
HANNS J. BUESCHELBERGER et al. :
Serial No. 10/070,840 :
Filed: May 11, 2001 : Art Unit
For: OPTICAL FIBER COIL FOR A :
FIBER-OPTIC MEASURING DEVICE :
AND A METHOD OF PRODUCING IT :

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Assistant Commissioner for Patents
Washington D.C. 20231

LETTER OF TRANSMITTAL

Dear Sir:

Transmitted herewith is page 9 of the Substitute Specification submitted with the present patent application with markings thereon indicating changes made to the English language translation of International patent application PCT/EP 01/ 05414.

It has come to the Applicants' attention that this page may be missing from the documents filed with this application as a copy of this page cannot be found in Applicants' attorney's file.

Respectfully submitted,

Elliott N. Kramsky
Registration No. 27,812
Attorney for Applicants

Elliott N. Kramsky, Esq.
LAW OFFICES OF ELLIOTT N. KRAMSKY
5850 Canoga Avenue, Suite 400
Woodland Hills, CA 91367
Ph: (818) 992-5221
Fx: (818) 710-2751



[in this totality] means leads to a very substantial reduction in the nonreciprocal phase shifts and/or zero shifts, caused by the Shupe effect, ^[of] in an interferometer equipped with such [a] fiber coil.

5 Detailed investigations into the factors of [influencing]

tensile stress, arrangement of interlayers of a buffer or fixing means between the winding layers, and number of [the]
fiber crossovers ^[occurring] on sensitivity to temperature transients [the] ^[in particular] and polarization cross-coupling (particularly) in the case of polarization-maintaining optical fibers ^[5] has led ^[finally] to the optimal solution of the invention. ^[implemented by]

10 [Above all] [According to]
Most significantly, the method of the invention is characterized in that, by contrast to prior assumptions and preconditions of the quadrupole winding technique, [given the large number of crossovers of the optical fiber]
15 there is a distinct improvement in the sensitivity to temperature transients in the direction of substantially smaller nonreciprocal phase shifts when there are a large number of crossovers of the optical fiber.

20 According to the invention, the winding is configured ^[in this case] such that the region in which the crossovers take place is not restricted to a small angular range, ^[of the coil] but